

Abstract:

5 The invention relates to a direct conversion receiver and a method in a
direct conversion receiver for processing received radio signals that are
modulated and centered at a carrier frequency, the modulation
extending a sideband above and below the carrier frequency. The
method comprises the steps of mixing a local oscillator frequency
10 signal with said received radio signals for generating baseband
frequency signals; filtering out generated disturbing direct current (DC)
components of said baseband signals centered at the zero frequency;
setting said local oscillator frequency signal equal to or about the
carrier frequency plus an offset frequency, said offset frequency being
15 equal to the difference between the carrier frequency and a null
frequency, said null frequency centered at a notch of said sideband;
and centering said notch at the zero frequency of said baseband
signals through mixing. The invention relates particularly to
suppression of DC offsets generated in the receivers.

(Fig. 2)